

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patents and Patent Applications for: **ABIOMED, Inc.**  
**ABIOMED CARDIOVASCULAR, Inc.**  
**ABIOMED R&D, Inc.**

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

REVOCATION AND GRANT OF POWER OF ATTORNEY  
AND CHANGE OF ADDRESS

Applicant hereby revokes all powers of attorney previously granted for the patents and patent applications listed below and respectfully requests the appointment of:

Ronald E. Cahill	Reg. No. 38,403	Lisa J. Michaud	Reg. No. 44,238
Carl M. DeFranco, Jr.	Reg. No. 32,675	Reza Mollaaghababa	Reg. No. 43,810
Thomas J. Engellenner	Reg. No. 28,711	David J. Powsner	Reg. No. 31,868
Michael I. Falkoff	Reg. No. 30,833	Richard J. Roos	Reg. No. 45,053
William C. Geary III	Reg. No. 31,359	Scott D. Rothenberger	Reg. No. 41,277

all of

NUTTER, McCLENNEN & FISH, LLP  
One International Place  
Boston, MA 02110

and

Michael G. Verga     Reg. No. 39,410  
ABIOMED, Inc.  
22 Cherry Hill Drive  
Danvers, MA 01923,

jointly and each of them severally as my attorneys-at-law with full power of substitution, delegation and revocation, to prosecute the application, to register, to make alterations and amendments therein, to receive the patent and to transact all business in the Patent and Trademark Office connected therewith.

Please direct all further communications to:

**Thomas J. Engellenner, Esq.**  
NUTTER, McCLENNEN & FISH, LLP  
One International Place  
Boston, MA 02110-2699  
Tel.: (617) 439-2948  
Fax: (617) 973-9948

This REVOCATION AND GRANT OF POWER OF ATTORNEY AND CHANGE OF ADDRESS is effective for each of the following listed United States patents and patent applications:

New Docket No.	Serial No.	Filing Date	Patent No.	Reel / Frame	Assignee
102619-2	09/248,970	2/12/99		010068/0472	Abiomed, Inc.
102619-5	06/926,816	10/31/86	4,888,009	4554/324	Abiomed Cardiovascular, Inc.
102619-13	07/008,061	1/14/87	4,785,795	6359/0291	Abiomed, Inc.
102619-21	07/216,028	7/7/88	4,888,011	4907/202	Abiomed, Inc.
102619-27	09/347,322	7/2/99		copy enclosed	Abiomed, Inc.
102619-29	09/346,833	7/2/99		copy enclosed	Abiomed, Inc.
102619-30	09/110,607	7/6/98		9337/0467	Abiomed, Inc.
102619-31	09/304,198	5/3/99		010060/0353	Abiomed, Inc.
102619-34	09/110,608	7/6/98		9832/0870	Abiomed, Inc.
102619-35	08/490,080	6/13/95	5,713,954	7527/0756	Abiomed R&D, Inc.
102619-36	08/581,051	12/29/95	5,800,528	7892/0893	Abiomed R&D, Inc.
102619-37	09/023,592	2/13/98		7892/0893	Abiomed R&D, Inc.
102619-38	09/017,632	2/3/98		7527/0756	Abiomed R&D, Inc.
102619-40	09/223,242	12/30/98		7892/0893	Abiomed R&D, Inc.
102619-41	09/223,645	12/30/98		7892/0893	Abiomed R&D, Inc.
102619-45	08/733,981	10/18/96		8383/0986	Abiomed R&D, Inc.
102619-46	09/444,591	11/22/99		copy enclosed	Abiomed, Inc.
102619-47	09/264,943	3/9/99		10005/0780	Abiomed, Inc.
102619-49	09/032,697	3/2/98		9674/0587	Abiomed, Inc.
102619-53	07/063,648	6/17/87	4,902,272	6359/0291	Abiomed, Inc.
102619-54	07/366,652	6/15/89	5,084,064	5143/0542 5143/0543	Abiomed Cardiovascular, Inc.
102619-55	07/366,860	6/15/89	5,089,016	5137/0007	Abiomed Cardiovascular, Inc.
102619-57	07/257,752	10/14/88	4,943,275	6359/0291	Abiomed, Inc.

STATEMENT UNDER 37 CFR 3.73(b)

ABIOMED, Inc., ABIOMED CARDIOVASCULAR, Inc., and ABIOMED R&D, Inc. state that they are the assignees of the entire right, title and interest in the patents and patent applications identified above by virtue of an assignment from the inventor(s) of the patent applications identified above. The assignments were recorded in the Patent and Trademark Office at the Reel and Frame indicated above, or copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to sign this REVOCATION AND GRANT OF POWER OF ATTORNEY AND CHANGE OF ADDRESS and STATEMENT UNDER 37 CFR 3.73(b) on behalf of the assignees.

Respectfully submitted,

Dated: 5/26/00

By: 

Michael G. Yerga

Chief Intellectual Property Counsel

Authorized Representative of:

ABIOMED, Inc.

ABIOMED CARDIOVASCULAR, Inc.

ABIOMED R&D, Inc.

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned Farhad Zarinetchi of Chelmsford, Massachusetts and Stephen J. Keville of Harvard, Massachusetts, hereby

Sell, assign and transfer to ABIOMED, Inc., a Delaware corporation having a place of business at 22 Cherry Hill Drive, Danvers, Massachusetts, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on July 2, 1999 under Serial No. 09/347,322 and entitled MAGNETIC SHIELD FOR PRIMARY COIL OF TRANSCUTANEOUS ENERGY TRANSFER DEVICE, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

We agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, we agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

We hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

We covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

116/99

Date 00 P2.

PARHAD ZARINETCHISTATE OF Massachusetts :COUNTY OF Essex :Subscribed and sworn to before me this 6th day of January 2000.Charlene A. Mello  
My Commission Expires June 18, 200412/30/99

Date

Stephen J. Keville  
STEPHEN J. KEVILLESTATE OF Massachusetts :  
COUNTY OF Worcester :Subscribed and sworn to before me this 30<sup>th</sup> day of December 1999.Car Capin  
My Commission Expires May 21, 2004

## DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

## MAGNETIC SHIELD FOR PRIMARY COIL OF TRANSCUTANEOUS ENERGY TRANSFER DEVICE

the specification of which is attached hereto unless the following is checked:

[X] was filed on July 2, 1999 as United States Application No. 09/347,322 or PCT  
(Include Series Code)  
International Application No. \_\_\_\_\_, bearing attorney docket No.  
\_\_\_\_\_, and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or section 365(a) of any PCT International application designating at least one country other than the United States listed below and have also identified below any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign PCT International Application(s) and any priority claims under 35 U.S.C. §§119 and 365(a), (b):

(Number)	(Country-if PCT, so indicate)	(DD/MM/YY Filed)	Priority Claimed	
			[ ]	[ ]
			YES	NO
(Number)	(Country)	(DD/MM/YY Filed)	[ ]	[ ]
			YES	NO
(Number)	(Country)	(DD/MM/YY Filed)	[ ]	[ ]
			YES	NO

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

(Application Number)	(filing date)
(Application Number)	(filing date)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT International application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56

which became available between the filing date of the prior application and the national or PCT International filing date of this application:

<u>09/110,608</u>	<u>July 6, 1998</u>	<u>pending</u>
(Application No.)	(filing date)	(status-patented, pending, abandoned)
<u>                    </u>	<u>                    </u>	<u>                    </u>
(Application No.)	(filing date)	(status-patented, pending, abandoned)

PCT International Applications designating the United States:

<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
(PCT Appl. No.)	(U.S. Ser. No.)	(PCT filing date)	(status-patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

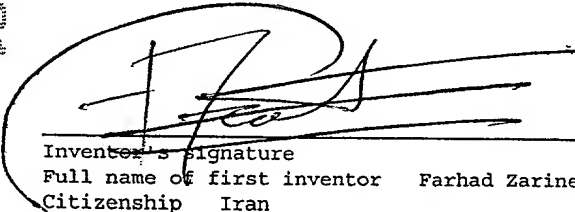
James H. Morris  
Reg. No. 34,681

Joseph Teja Jr.  
Reg. No. P-45,157

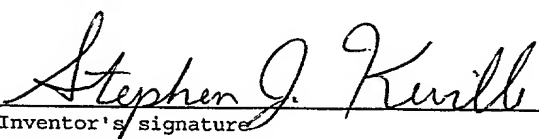
Address all telephone calls to James H. Morris at telephone no. (617) 720-3500. Address all correspondence to

James H. Morris  
c/o Wolf, Greenfield & Sacks, P.C.,  
Federal Reserve Plaza  
600 Atlantic Avenue  
Boston, MA 02210-2211

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

  
\_\_\_\_\_  
Inventor's signature  
Full name of first inventor Farhad Zarinetchi  
Citizenship Iran  
Residence 9 Bradford Road, Chelmsford, MA 01863  
Post Office Address 9 Bradford Road, Chelmsford, MA 01863

12/20/99  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Inventor's signature  
Full name of second inventor Stephen J. Keville  
Citizenship United States of America  
Residence 38 Finn Road, Harvard, MA 01451  
Post Office Address 38 Finn Road, Harvard, MA 01451

12/7/1999  
\_\_\_\_\_  
Date